An Update on The Joint Hurricane Testbed (JHT)

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ABSTRACT

The Joint Hurricane Testbed continues to facilitate the testing, implementation, and transition of new forecasting tools, techniques and model advances, developed by the tropical cyclone research community. The testing and implementation is carried out at the National Hurricane Center (NHC) and the Environmental Modeling Center (EMC). The seventh round (FY13-15) projects were tested and evaluated during the 2015 hurricane season, following any necessary technique modifications or other preparations. These projects completed their funding cycle and are being evaluated for operational implementation. Eight new projects were selected for the eight round (FY15-17). These projects include upgrades to the tropical cyclone genesis index, enhancements to eyewall replacement cycle technique, storm surge modeling, track forecasting algorithms, intensity estimation and forecasting algorithms. An overview of these projects and other JHT updates will be presented.